

DETECTION REPORT

1. Incident Number: _____
2. Location by Landmark: _____
3. Legal: $\frac{1}{4}$ $\frac{1}{4}$ _____ SEC _____ T _____ N
R _____ W
4. Coordinates: LAT _____
LONG _____
5. Est. Size and Potential: _____
6. Exposure/Aspect: _____
7. Rate of Spread:
Raid _____ Moderate _____ Slow _____
8. Flame Length: _____
9. Position on Slope: Low $\frac{1}{3}$ _____ Midslope _____
Upper $\frac{1}{3}$ _____
10. Slope: Gentle _____ Moderate _____ Steep _____
11. Fuels: Burning In: _____
Burning Into: _____
12. Wind: Speed _____ Direction _____
13. Smoke: Color _____ Volume _____ Drift _____
14. Percentage of Perimeter with Active Fire _____
15. Other Information
Access Roads

Helispots

Bucket Fill Sites

Resource Needs (Numbers and Type)

Other - _____

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2017 AVIATION BRIEFING PACKET

v.6/26/17

(check frequency plan
with dispatch)



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NOTES:

DETECTION REPORT

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Access Roads

Helispots

Bucket Fill Sites

Resource Needs (Numbers and Type)

Other - _____

Ch	Group 10 Label	P2019 LNF WEST ZONE Description	RX freq	RX CG	TX freq	TX CG
1	W DIRECT	West Zone Direct	172.3875	0.0	172.3875	127.3
2	PATS KNOB	Pat's Knob repeater	172.3875	0.0	164.1750	156.7
3	KEYSTONE	Keystone Mountain Repeater	172.3875	0.0	164.1750	136.5
4	THOMPSON	Thompson Peak repeater	172.3875	0.0	164.1750	103.5
5	CAMELS	Camel's Hump Repeater	172.3875	0.0	164.1750	110.9
6	EDDY MTN	Eddy Mountain repeater	172.3875	0.0	164.1750	131.8
7	RICHARDS	Richards Peak repeater	172.3875	0.0	164.1750	167.9
8	LOOKOUT	Lookout Pass repeater	172.3875	0.0	164.1750	146.2
9	PORTABLE	Portable repeater	172.3875	0.0	164.1750	192.8
10	CH – 10	OPEN	0.0000	0.0	0.0000	0.0
11	CH – 11	OPEN	0.0000	0.0	0.0000	0.0
12	CH – 12	OPEN	0.0000	0.0	0.0000	0.0
13	TAC - 1	Fire Tactical Channel 1	167.1125	0.0	167.1125	0.0
14	COMMON - 1	Logistics Command Use #1	163.7125	0.0	163.7125	0.0
15	WEST A/G	West Zone Air to Ground channel	166.7500	0.0	166.7500	0.0
16	TAN	Medical Life flight	155.3400	0.0	155.3400	156.7

LNF/CSKT AVIATION BRIEFING CHECKLIST

- ◇ Local conditions, Forest Layout, current fires/ incidents, other air resources (reference forest 220), hazards, and fire weather.
- ◇ Communications, flight following, and dispatch procedures.
- ◇ Forest/aviation organization and phone numbers.
- ◇ Dispatch organization and phone numbers.
- ◇ Airstrip/helibase/helisport locations.
- ◇ Local services information
- ◇ Resource specific Information (Reference hosting base SEAT or Helibase operating plan).
- ◇ Transition Plan. Discuss logistical and relief needs. Ordering procedures and timeline.
- ◇ Noxious Weed Spread Mitigation.(net inspection, site use, and vehicle wash.)
- ◇ Aquatic Nuisance Species Mitigation procedures.
- ◇ Aerial fire retardant misapplication form.
- ◇ LNF Wilderness Flight/Landing policy

The enclosed information is a guide for aviation operations on the Lolo National Forest and CS&KT Division of Fire lands. The information is for all aviation resources and Incident Management teams who participate in aviation operations on both tribal and forest lands. This guide is for informational purposes only and does not overrule manual or handbook direction. Additional information is available as requested.

Information provided:

Phone Numbers
Radio Frequencies
Missoula Mutual Aid Dispatch Protocol
LNF/CSKT Area Aviation Frequencies
LNF Repeater Map
Flight Following/Jettison Areas
Flight Traffic Area
Flight Hazard Map
Sunrise/Sunset Tables
EMS/Medical Facilities
Local Airports/Airstrips
Aquatic Nuisance Species
Fire Chemical Reporting Form
Environment Mgmt System (EMS)
Commonly Used Helibases
Helispot Information
Dip Sites
Cargo Net Weed Inspection Form
Wilderness Flight/Landing Tracking Form
Missoula Hotel Information
Outside Missoula Hotel Information
Detection Report

Group 9	P2019 LNF EAST ZONE			
Ch. Label	Description	RX freq	RX CG	TX freq TX CG
1 E DIRECT	East Zone Direct	172.3750	0.0	172.3750 127.3
2 MILLER	Miller Peak repeater	172.3750	0.0	164.1000 131.8
3 UNIVERSITY	University Mountain repeater	172.3750	0.0	164.1000 100.0
4 STARK	Stark Mountain repeater	172.3750	0.0	164.1000 103.5
5 WHITE MT	White Mountain repeater	172.3750	0.0	164.1000 107.2
6 QUIGG	Quigg Peak repeater	172.3750	0.0	164.1000 156.7
7 MINERAL	Mineral Peak repeater	172.3750	0.0	164.1000 136.5
8 MORRELL	Morrell Mountain repeater	172.3750	0.0	164.1000 146.2
9 RICHMOND	Richmond repeater	172.3750	0.0	164.1000 167.9
10 LAKE MT	Lake Mountain repeater	172.3750	0.0	164.1000 110.9
11 PORTABLE	Portable repeater	172.3750	0.0	164.1000 192.8
12 CH - 12	OPEN	0.0000	0.0	0.0000 0.0
13 TAC - 1	Fire Tactical Channel 1	167.1125	0.0	167.1125 0.0
14 COMMON - 1	Logistics Command Use #1	163.7125	0.0	163.7125 0.0
15 EAST A/G	East Zone Air to Ground channel	166.5000	0.0	166.5000 0.0
16 TAN	Medical Life flight	155.3400	0.0	155.3400 156.7

**Hotel/Motel Guide
(Outside Missoula Area)**

(not all inclusive, may be other accommodations)

Thompson Falls	
Lodge Motel	406-827-3603
Lakeside Motel	406-827-4458
Falls motel	406-827-3559
Plains	
Crossroads Motel	406-826-3623
Tops Motel	406-826-3412
St. Regis	
Super 8	406-649-2422
St Regis Camp Motel	406-649-2428
Little River Motel	406-649-2713
Superior	
Hill Top Motel	406-822-4781
Big Sky Motel	406-822-4831
Bellevue Hotel	406-822-4692
Ronan	
Starlite	406-676-7000
Polson	
Super 8	406-883-6251
KwaTaqNuk Resort	406-883-3636
Bay View	406-883-3120
St. Ignatius	
Sunset	406-745-3900
Seeley	
Wilderness Gateway	406-677-2095
Seeley Motor Lodge	406-677-2335
MT Pine Motel	406-677-2775
Kozy Kountry Ldge	406-677-3436
Double Arrow	406-677-2777

LOLO N.F. FIRE CONTACTS

Forest Fire Management Officer (FFMO): (406) 329-1089 Office
Laura Ward (406) 531-9391 Cell

Assistant FFMO: (406) 329-1039 Office
Chad Pickering (406) 293-0973 Cell

Forest Aviation Officer (FAO) (vacant—detail)
Beau Dobberstein (406) 370-3374 Cell

Missoula Interagency Dispatch Center: Aircraft Desk
 (406) 829-7050

Plains Interagency Dispatch Center: Center Manager
 (406) 826-3061

Missoula Fire Management Officer: Jesse Kurpius
 (406) 329-3852

Ninemile Fire Management Officer: Dewey Arnold
 (406) 626-5422

Plains Fire Management Officer: Scott Schrenk
 (406) 826-4336

Seeley Lake Fire Management Officer: Phil Shelmerdine
 (406) 677-3915

Superior Fire Management Officer: Jim Ward
 (406) 822-3952

CSKT DIVISION OF FIRE CONTACTS

Note: The Office number listed below will connect you to the Division of Fire front desk.
Ask for the contact you wish to speak with.

Fire Management Officer (406) 676-2550 Office
Ron Swaney (406) Cell

Assistant FMO (Operations) (406) 676-2550 Office
Bob McCrea (406) 531-0143 Cell

Helicopter Program Manager (406) 676-2550 Office
Todd Couture (406) 214-7062 Cell

SEAT Base Manager (406) 676-2550 Office
Robert McCrea (406) Cell

Ronan Dispatch Center (406) 676-2550 Office
Ask for Dispatch

R1-Regional Aviation Contacts

<u>Regional Aviation Officer</u> <u>Maggie Doherty</u>	<u>office (406) 329-4903</u> <u>cell (406) 370-3340</u>
<u>Helicopter Operations Specialist</u> <u>Dave Crumb</u>	<u>office (406) 329-4915</u> <u>cell (208) 315-2438</u>
<u>Fixed Wing Specialist</u> <u>Ken Wabaunsee</u>	<u>office (406) 329-4914</u> <u>cell (406) 370-5896</u>
<u>Regional Aviation Safety Manager</u> <u>Bob Roth</u>	<u>office (406) 329-3235</u> <u>cell (406) 370-9707</u>
<u>Aviation Contracting Officer (Boise)</u> <u>David Hershey</u>	<u>office (208) 387-5627</u> <u>cell (208) 985-6266</u>
<u>Aircraft Maintenance Specialist</u> <u>John Farro</u>	<u>office (406) 829-7345</u> <u>cell (406) 370-3347</u>
<u>Helicopter Inspector Pilot</u> <u>John Harris</u>	<u>office (406) 329-4749</u> <u>cell (406) 370-3342</u>
<u>Regional Standardization/Supervisor Pilot</u> <u>Abe Fandrich</u>	<u>office (406) 329-4915</u>

Missoula Motels (cont.)

<u>MOTEL</u> <u>SERVICE CODE*</u>	<u>PHONE</u>	<u>ADDRESS</u>
AMERICA'S BEST INN S R L J N M	406/542-7550 800/272-9500	4953 N. RESERVE
BEST WESTERN - GRANT CREEK S R C L P J X N M	406/543-0700 888/543-0700	5280 GRANT CREEK
BEST WESTERN - EXECUTIVE C F M N P R	406/543-722 800/528-1234	1201 E MAIN ST
BROADWAY INN C P J S	406/532-3300 800/286/2316	1609 W BRDWAY
COMFORT INN C J P F	406/542-0888 800/228-5150	4545 N RESERVE
COURTYARD by MARRIOTT F J L M N P R X	406/549-5260 800/228-9290	4559 N. RESERVE
CMON INN C J P F R	406/543-4600 888/989-5569	2775 EXPO PARKWAY
DAYS INN-WESTGATE INN S R C L J N M	406/721-9776 800/325-2525	WYE @I-90/HWY 93
DEANO'S MICROTTEL INN C M N R S	406/543-0959 888/771-7171	5055 N. RESERVE
DOUBLE TREE INN S R P J X F N M	406/728-3100 800/222-8733	100 MADISON
HAMPTON INN S C P J X F N M	406/549-1800 800/426-7866	4805 N. RESERVE
HILTON GARDEN INN F J L M N P R S X	406/532-5300 877/772-9444	3720 N. RESERVE

SERVICE CODES* (services are subject to change without notice), C = Free Continental Breakfast
F = Fridge Available (fees and availability apply request in advance), J = Jacuzzi/Spa/Hot Tub.
L = Laundry Services (Laundry services are within walking distance of most motels.
M = Modem /Data Line (are in the rooms or availability upon request), N = Free Newspaper
P = Pool (some pools are seasonal), R = Restaurant (located in the motel or are within the I
mmediate area.
S = Shuttle Service, X = Exercise Room

Missoula Motels (Other accommodations available)

MOTEL SERVICE CODE*	PHONE	ADDRESS
HOLIDAY INN-RIVERSIDE C L M N R S X	406/549-7600 800/465-4329	1071 EAST BRDWAY
HOLIDAY INN PARKSIDE C F J L M P R S X	406/721-8550 800-399-0408	200 S. PATTEE
LA QUINTA INN C F L M F P R X	406/549-9000 800/531-5900	5059 N. RESERVE
QUALITY INN S R L J N M	406/251-2665 800/272-9500	3803 BROOKS
RED LION C F J L M N P R S X	406/723-3300 800/733-5466	700 WEST BRDWAY
REDWOOD LODGE C L M R S	406/721-2110 800/874-9412	190 & WYE
RUBY'S RESERVE ST. INN S R C L P J F M	406/721-0990 800-221-2057	4825 N. RESERVE
SUPER 8-BROOKS S R C L N M	406/251-2255 888/900-9010	3901 BROOKS
SUPER 8-RESERVE S R C L J M	406/549-1199 888/900-9010	4703 N. RESERVE
SOUTHGATE INN S R C L P J X F N M	406/251-2250 800/247-2616	3530 BROOKS
TRAVELERS INN C F M R	406/728-8330 800/862-3363	4850 N RESERVE
VALU INN S R C L J X F N M	406/721-9600 800/443-7777	3001 BROOKS
WINGATE INN M C X P S J F	406/541-8000 866-832-8000	5252 AIRWAY BLVD.

SERVICE CODES* (services are subject to change without notice), C = Free Continental Breakfast

F = Fridge Available (fees and availability apply request in advance), J = Jacuzzi/Spa/Hot Tub.
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P = Pool (some pools are seasonal), R = Restaurant (located in the motel or within the immediate area.

S = Shuttle Service, X = Exercise Room

<<NOTE>>

The Frequency Plan for the Lolo National Forest was in flux at time of this printing. Check with Missoula Dispatch to see if the 2017 freq. plan is in effect, or if the new 2019 Radio plan is in effect (new frequencies listed in the back of this booklet)

2017 CSKT Portable VHF-FM Frequencies

CSKT Division Of Fire -Narrow Band

Ch	Label	Descrip	RX	RX CG	TX	TX tone #	
1	Bassoo	Bassoo Repeater	166.925		166.325	110.9	
2	Pistol Crk	Pistol Crk Repeater	166.925		166.325	127.3	
3	Oliver	Oliver Repeater	166.925		166.325	114.8	
4	Pats Knob	Pats Knob Repeater	166.925		166.325	146.2	
5	Simplex	Ronan Disp Direct	166.925		166.925		
6	Red	State	154.070		154.070		
7	Lake Co.	Lake Co. Sheriff	154.250		153.770	103.5	
8	A/G	CSKT A/G	167.8875		167.8875		
9	Tac1	CSKT Tac Ch	168.350		168.350		
10	Tac 2	CSKT Tac Ch	163.100		163.100		
11	EMS	TAN	155.340		155.340		
12	BR-Simplex	Bison Range-Direct	170.050		170.050		
13	BR-Rptr	Bison Range-Repeater	170.050		171.750	114.8	
14	LNF-West	Lolo-Plains Dsp	164.9125		164.9125	123.0	
15	LNF-East	Lolo-Missoula Dsp	164.700		164.700	123.0	
16	FNF-Direct	Flathead-Kalispell	164.375		164.375		

2017 Lolo NF FM/AM Frequencies: Aviation
(check frequency plan with dispatch)

Lolo NF Aviation Freqs FM				
	RX	TX	TONE	BAND-WITH
National FF	168.650	168.650	110.9 RX/TX	Narrow
East Direct	164.700	164.700	123.0 TX	Narrow
East A/G	166.5000	166.5000	N/A	Narrow
West Direct	164.9125	164.9125	123.0 TX	Narrow
West A/G (A/G 05)	166.7500	166.7500	N/A	Narrow
Ronan Dispatch	166.925	166.925	N/A	Narrow
CSKT A/G (A/G 48)	167.8875	167.8875	N/A	Narrow
Tac 1	167.1125	167.1125	N/A	Narrow
Tac 2	167.625	167.625	N/A	Narrow
Green	171.475	171.475	141.3 TX	Narrow
Yellow	151.220	151.220	N/A	Narrow
Orange	151.400	151.400	N/A	Narrow
Red	154.070	154.070	N/A	Narrow
TAN (Air Amb)	155.340	155.340	156.7 TX	Narrow
White (Ground Amb)	155.280	155.280	N/A	Narrow
Bitterroot 2 (North)	169.625	169.625	146.2 TX	Narrow
Bitterroot A/G (52)	168.3875	168.3875	N/A	Narrow
Air Guard	168.6250	168.6250	110.9 TX	Narrow
AM Freqs				
West A/A (A/A-2)	134.5000	134.5000	N/A	N/A
East A/A (A/A-1)	126.0500	126.0500	N/A	N/A
CS&KT A/A (A/A-3)	135.4000	135.4000	N/A	N/A
Missoula Tanker Base	123.9750	123.9750	N/A	N/A

Most handheld GPS units and mapping software can be easily set up to do any of the formats. ***Most aircraft mounted GPS units are not easily changed from the degrees decimal minutes format.*** There are conversion charts, software programs, and formulas available at the following sites:

<http://www.fcc.gov/mb/audio/bickel/DDDMSS-decimal..html>

http://www.calculatorcat.com/latitude_longitude.phtml

To manually convert **degrees minutes seconds** to **degrees decimal minutes** divide seconds by 60.

Example: degrees/min/sec (conversion) degrees decimal min
 $48^{\circ} 20' 30'' \rightarrow (30'' \div 60 = .5') \rightarrow 48^{\circ} 20.5'$

To manually convert **degrees decimal minutes** to **degrees minutes seconds**, multiply hundredths (i.e. .12) by 60.

Example: degrees decimal min (conversion) degrees/min/sec
 $48^{\circ} 20.5' \rightarrow (.5' \times 60 = 30'') \rightarrow 48^{\circ} 20' 30''$

Important “Etiquette”

Remember there can never be more than 60 seconds in degrees minutes seconds format (C).

For clarity, insert a zero “0” in front of single digit minutes as many GPS units and map programs require two digits.

Do NOT mix formats.

Aircraft use (per contract) **WGS84 datum** and **Degrees Decimal Minutes**

“Degrees Decimal Minutes”

Any dispatches, fire locations, aerial ignition plans or anything that might need to be located from an aircraft will use the **Degrees decimal minutes format (B)**.

Latitude and longitude may be shown in three formats:

Plotting the three formats above will place a location in **three different spots**; it is critical we use the same format.

It is CRITICAL to use correct punctuation!

Degrees: ° (MS Word- hit Ctrl+Shift+@, then space for ° symbol
OR use insert Symbol)

Minutes: ’
Seconds: ”

Note: In “**A**” above, only the ° is used.

(Said “forty-eight point three six one two degrees.”)

Note: In “**B**” above, both ° and ’ are used.

(Said “forty-eight degrees, thirty six point one two minutes.”)

Note: In “**C**” above, the ° and ’ and ” are used.

(Said “forty-eight degrees, thirty six minutes, and twelve seconds.”)

“A” - Decimal Degree (Seldom Used)	48.3612°N 114.0812°W
“B” - Degrees Decimal Minutes (aka) Degrees Minutes Decimal Minutes or Degrees Minutes Tenths) Aircraft mounted GPS units Contracts FAA documents such as airport guides	48°36.12’N 114°08.12’W
“C” - Degrees Minutes Seconds (Many maps) ROSS Nat’l Mob Guide TFR requests forms	48°36’12”N 114°08’12”W

	LNf East Zone	Group 1	Description	RX freq	RX CG	TX freq	TX CG
Ch. 1	E DIRECT		East Zone Direct	164.7000	0.0	164.7000	123.0
2	RICHMOND		Richmond repeater	164.7000	0.0	164.1000	103.5
3	LAKE MT		Lake Mountain repeater	164.7000	0.0	164.1000	110.9
4	QUIGG		Quigg Peak repeater	164.7000	0.0	164.1000	131.8
5	WHITE MT		White Mountain repeater	164.7000	0.0	164.1000	136.5
6	MINERAL		Mineral Peak repeater	164.7000	0.0	164.1000	146.2
7	PORTABLE		Portable repeater	164.7000	0.0	164.1000	167.9
8	TAC - 1		Fire Tactical Channel 1	167.1125	0.0	167.1125	0.0
9	TAC - 2		Fire Tactical Channel 2	167.6250	0.0	167.6250	0.0
10	TAC - 3		Fire Tactical Channel 3	168.5625	0.0	168.5625	0.0
11	TAC - 4		Fire Tactical Channel 4	168.1500	0.0	168.1500	0.0
12	COMMON - 1		Logistics Command Use #1	163.7125	0.0	163.7125	0.0
13	COMMON - 2		Logistics Command Use #2	168.6125	0.0	168.6125	0.0
14	EAST A/G		East Zone Air to Ground channel	166.5000	0.0	166.5000	0.0
15	WEST A/G		West Zone Air to Ground channel	166.7500	0.0	166.7500	0.0
16	TAN		Medical Life flight	155.3400	0.0	155.3400	156.7

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LNF-Mutual Aid Dispatch Protocol

LNF-Wilderness Flights/Landings

In the interest of public safety, the Forest Supervisor shall authorize the initial flight for medical or rescue aircraft missions in wilderness areas. Advanced approval for initial missions in wilderness is only applicable to life-threatening emergencies in which time is critical. Subsequent flights will require separate Forest Supervisor approval.

The LNF Supervisor or Acting will be notified immediately for initial authorization of aircraft in the event of a flight for medical or rescue missions.

All landings/sling loads will be documented on the wilderness intrusion form and submitted to the LNF FAO.

Late Season Operations

Tactical aviation operations on the Lolo NF from August 15 through the season's end shall be conducted only from official sunrise to official sunset. This does not apply to ferry flights to and from fixed bases.

- MDC will broadcast to responding units the **Command Frequency** for any fires where multiple agencies are responding: "This fire, incident number ____ will be on _____".
- The frequency will be described according to the common name, such as "Green, Lolo East, Union Peak, etc." (See the attached list)
- MDC will also assign and broadcast to all responding units a tactical frequency at the time of dispatch. These will also be broadcast according to common name such as "Red, Orange, Maroon, Lolo Tac 1, etc." (See the attached list)
- MDC will broadcast the air to ground frequency if aircraft are dispatched. The two air to ground frequencies available are Yellow (DNRC) and Lolo Air to Ground.
- Frequencies will be assigned and coordinated during initial attack so that field programming of radios is unnecessary. Many agencies do not have the ability to field program their radios.

2017 Missoula Area Mutual Aid Fire Frequencies (check frequency plan with dispatch)

- Colored tactical frequencies are listed in order of priority, and will be assigned in order as shown to minimize conflicting radio traffic.

NAME	DESCRIPTION	RX	TX	TX TONE	Wide/ Narrow
Lolo East direct	Lolo east direct dispatch	164.700	164.700	123.0	N
Green	Dispatch/Command	171.475	171.475	141.3	N
Union Peak	Union Peak Repeater	151.175	151.475	141.3	N
Yellow	State air to Ground	151.220	151.220		N
Lolo East A/G	Lolo Air to Ground	164.825	164.825		N
Red	State mutual aid tactical	154.070	154.070		W
Orange	State mutual aid tactical	151.400	151.400		N
Maroon	State mutual aid tactical	154.280	154.280		W
Coral	State mutual aid tactical	154.265	154.265		W
Scarlet	State mutual aid tactical	154.295	154.295		W
Lolo Tac 2	Lolo Tactical 2	170.550	170.550	136.5	N
Lolo Tac 3	Lolo Tactical 3	172.350	172.350	146.2	N
BLM Direct	BLM direct	168.425	168.425		N

Aerial Fire Retardant

Additional Aviation Frequencies
(add additional frequencies here as needed)

[illegible]

ASSESSMENT OF FIRES LESS THAN 300 ACRES IN SIZE
Reporting and Monitoring Requirement for Aerially-Applied Fire Retardant Only

Objective: This form is to document that 5% of fires (per forest/with a minimum of 1 fire per forest) less than 300 acres where aerial fire retardant and identified avoidance areas (terrestrial or aquatic) are evaluated to determine if retardant entered an avoidance area. Forests that either do not have any avoidance areas or do not use aerially delivered fire retardant do not need to complete this assessment. If your forest uses aerial fire retardant and has avoidance areas mapped, then:

Step 1: Did your forest apply aerial fire retardant on fires less than 300 acres in size and where avoidance areas were present?

- If **NO**, then complete box #10 and submit as directed in box #9.
- If **YES**, then complete the following form as directed

1. Incident Name:		2. Time and Date of Occurrence:	
3. Physical Location of Occurrence - Unit Name (Forest, District, etc):		4. Size of Fire: 0-10 acres <input type="checkbox"/> ; 11-100 acres <input type="checkbox"/> ; 101-200 acres <input type="checkbox"/> ; 201-300 acres <input type="checkbox"/>	
5. Did retardant enter avoidance area? : Yes <input type="checkbox"/> ; No <input type="checkbox"/>			
7. If so, where: (check all that apply):		Waterway Buffer Zone (300' or larger) <input type="checkbox"/> ; Waterway <input type="checkbox"/> ; Aquatic TESP Habitat <input type="checkbox"/> ; Terrestrial TESP Habitat <input type="checkbox"/>	
<p>TESPC: Threatened, Endangered, Sensitive, Candidate or Proposed Species - these are 'avoidance areas' designated by each Forest.</p> <p>Waterway: any body of water including lakes, rivers, streams and ponds whether or not they contain aquatic life. This is broadly interpreted to include swamps, marshes, and other wetlands.</p>			
8. If yes, The following forms are required: <ul style="list-style-type: none"> • INTERAGENCY RETARDANT MISAPPLICATION REPORTING FORM, and • SITE ASSESSMENT OF IMPACTS IN Terrestrial or Aquatic AVOIDANCE AREAS 		9. If no, Send this form to the host unit Agency Administrator and a copy sent to the Wildland Fire Chemicals System (WFCS) Program at the Missoula Technology and Development Center (MTDC). Electronic submissions are preferred please visit www.fs.fed.us/fire/retardant_for_on-line_live_reporting_forms . Contacts: szylstra@fs.fed.us and jlaufman@fs.fed.us	
10. Region, Forest, Date and Contact (Individual Completing Form)			

Aerial Fire Retardant

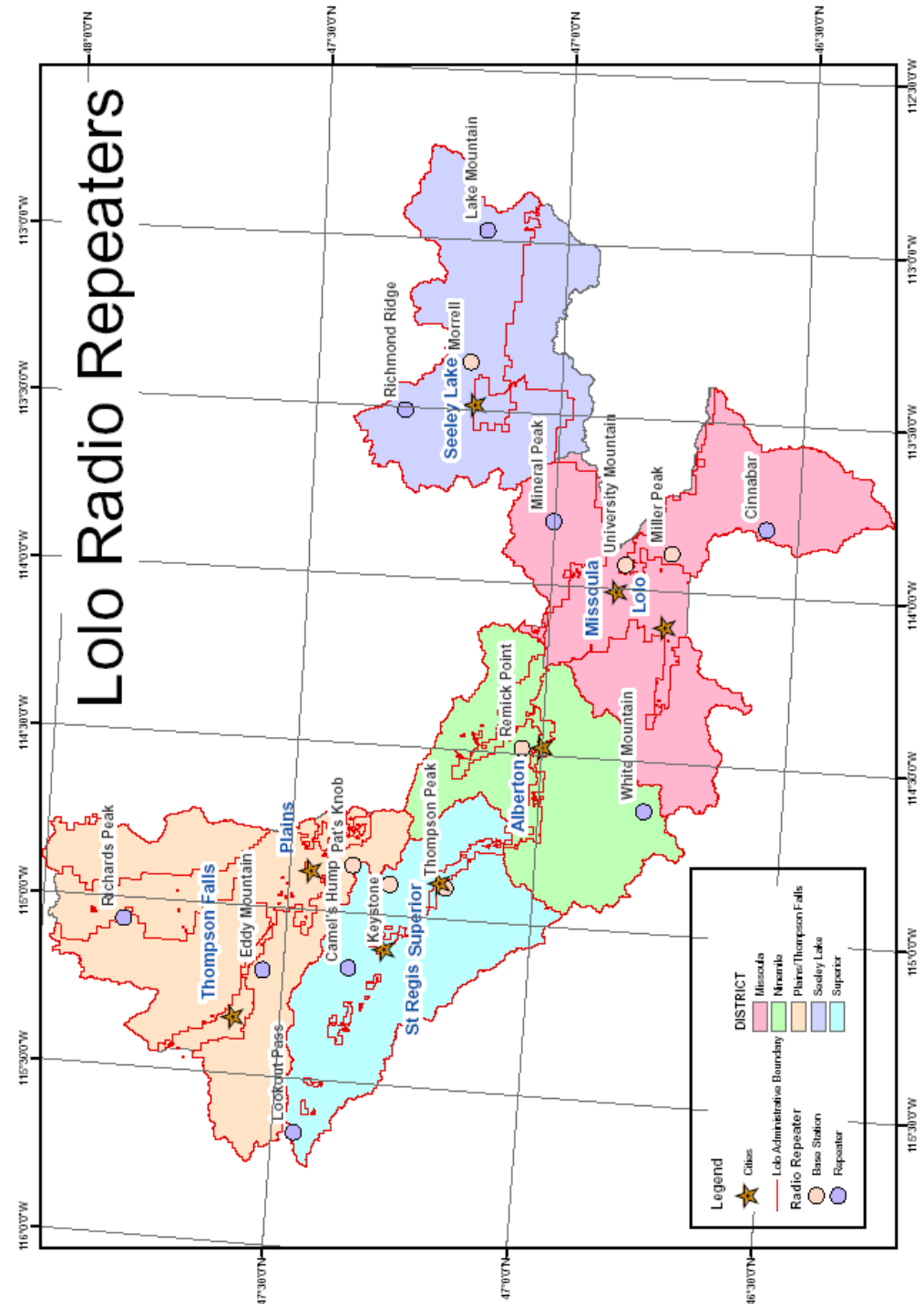
INTERAGENCY WILDLAND FIRE FOAMS, GELS or Ground Based FIRE RETARDANT

MISAPPLICATION REPORTING

For Reporting Misapplication of *Fire Foams and Gels* via Ground or Aerial Applications
Or Ground Applied Fire Retardant

(Complete immediately after misapplication or as soon as safe to enter)

1. Incident Name:	2. Time and Date of Fire Chemical Misapplication:
3. Date of Discovery (if different from item #2)	4. GPS Location of Misapplication (Lat/Long in °-minutes-decimal):
5. Physical Location of Occurrence - Unit Name (Forest, District):	6. Name of Fire Chemical (e.g. Silv-Ex, Thermo-Gel 200L):
7. Size of Fire (acres):	8. Mis-application: Exception <input type="checkbox"/> Accidental <input type="checkbox"/>
9. Method of Delivery: Airtanker <input type="checkbox"/> SEAT <input type="checkbox"/> Helicopter <input type="checkbox"/> Ground <input type="checkbox"/>	
10. Avoidance Area Description (check all that apply): Aquatic TEPCS Habitat (FS only) <input type="checkbox"/> ; Waterway Buffer Zones (300' or larger) <input type="checkbox"/> ; Waterway <input type="checkbox"/> ; Cultural Resource (FS only) <input type="checkbox"/> ; Terrestrial TEPCS Habitat (FS only) <input type="checkbox"/> ; Sacred Site (FS only) <input type="checkbox"/> ; <small>TEPCS: Threatened, Endangered, Proposed, Candidate, or Sensitive Species - these are 'avoidance areas' designated by each Forest. Waterway: any body of water including lakes, rivers, streams and ponds whether or not they contain aquatic life. This is broadly interpreted to include swamps, marshes, and other wetlands.</small>	
11. Description of Wildland Fuel at the Site Mis-application: (check all that apply): Open Light Fuels (including meadows/grass) <input type="checkbox"/> Brush <input type="checkbox"/> Open Timber/Grass <input type="checkbox"/> Timber/Brush <input type="checkbox"/> Heavy Timber/Closed Canopy <input type="checkbox"/> Slash <input type="checkbox"/>	
12. Physical Description of the Site and Any Observed Environmental Impacts:	
13. Description of Fire Chemical Coverage at the Site: Light <input type="checkbox"/> Spotty <input type="checkbox"/> Continuous <input type="checkbox"/> Other (describe here):	
14. # of Drops in Avoidance Areas: _____	
15. Approx total. # of Gallons Dropped in Avoidance Area _____ gals.	
16. Approximate Size of Fire Chemical Application in Affected Area (length/width):	
17. Name of Person Reporting (include unit/incident position, email address and phone #):	
18. Name of Resource Advisor contacted (if different from above; include contact information):	
19. Were appropriate entities notified, if required? (i.e. FWS, NOAA Fisheries, DEQ) USFWS <input type="checkbox"/> NOAA <input type="checkbox"/> DEQ <input type="checkbox"/> Other <input type="checkbox"/> (describe here):	



FLIGHT FOLLOWING

Flight following shall be in accordance with Regional and National Mobilization Guides. When Automated Flight Following (AFF) is available, it will be the primary means of flight following and radio flight following will be secondary. All flights requiring a fifteen (15) minute check-in and will report location by Lat/Long, geographic location (if known) and heading. Lat/Long will be reported in degrees, minutes and tenths (decimal minutes). DD.MM.M

Automated flight following **DOES NOT** reduce or eliminate the requirement for aircraft on mission flights to have FM radio capability or for the aircraft to be monitoring appropriate radio frequencies during the flight. When the aircraft is initially airborne and outside of the sterile cockpit environment, the pilot/manager will contact the dispatch office via radio to positively verify both the aircraft and dispatch are utilizing AFF, radios are operational and dispatch can “see” the aircraft on the computer screen.

MISSOULA JETTISON LOCATIONS

In the event it is necessary to jettison a load on climb out or upon return to MSO, the pilot at his discretion may use any of the following areas.

South/West

Blue Mountain area
T13N R20W S32
188° from MSO VOR – 8 miles

East

Hellgate/Mt Sentinel
T13N R19W S25
097° from MSO VOR – 6 miles

North/West

Deep Creek/Albert Creek
T14N R21W S22 & 27
269° from MSO VOR – 6 miles

In the event it is necessary to drop on the airport, the designated drop area is:

PARALLEL TO & SOUTH OF RUNWAY 11/29

Contact Missoula Tower for clearance and assistance.

Aerial Fire Retardant

INTERAGENCY WILDLAND FIRE

AERIAL FIRE RETARDANT

MISAPPLICATION REPORTING

Reporting and Monitoring of Misapplication of Aerially-Applied Fire Retardant Only

(Complete immediately after misapplication, when discovered or as soon as safe to enter)

This form is mandatory for Forest Service fires

1. Incident Name:	2. Time and Date of Retardant Misapplication:
3. Date of Discovery (if different from #2 above):	4. Location if misapplication (Lat/Long in °min-decimal):
5. Physical Location of Occurrence - Unit Name (Forest, District):	6. Name of Retardant (e.g. P-100, LC-95A, etc):
7. Size of Fire (acres):	8. <u>Forest Service only</u> : Is this part of the 5% assessment of fires less than 300 acres: Yes <input type="checkbox"/> No <input type="checkbox"/>
9. Method of Delivery: Airtanker <input type="checkbox"/> SEAT <input type="checkbox"/> Helicopter <input type="checkbox"/>	10. Mis-application: Exception <input type="checkbox"/> Accidental <input type="checkbox"/>
11. Avoidance Area Description (check all that apply): Aquatic TEPCS Habitat (FS only) <input type="checkbox"/> ; Waterway Buffer Zones (300' or larger) <input type="checkbox"/> ; Waterway <input type="checkbox"/> ; Cultural Resource (FS only) <input type="checkbox"/> ; Terrestrial TEPCS Habitat (FS only) <input type="checkbox"/> ; Sacred Site (FS only) <input type="checkbox"/> <small>TEPCS: Threatened, Endangered, Proposed, Candidate, or Sensitive Species – these are 'avoidance areas' designated by each Forest. Waterway: any body of water including lakes, rivers, streams and ponds whether or not they contain aquatic life. This is broadly interpreted to include swamps, marshes, and other wetlands.</small>	
12. Description of Wildland Fuel at the Site (check all that apply): Open Light Fuels (including meadows/grass) <input type="checkbox"/> Brush <input type="checkbox"/> Open Timber/Grass <input type="checkbox"/> Timber/Brush <input type="checkbox"/> Heavy Timber/Closed Canopy <input type="checkbox"/> Slash <input type="checkbox"/>	
13. Physical Description of the Site and Any Observed Environmental Impacts:	
14. Description of Fire Chemical Coverage at the Site: Light <input type="checkbox"/> Spotty <input type="checkbox"/> Continuous <input type="checkbox"/> Other (describe here):	
15. # of Drops in Avoidance Areas: _____ drops,	
16. Approx total # of Gallons Dropped in Avoidance Area _____ gals.	
17. Approximate Size of Retardant Drop in Affected Area (length/width):	
18. Name of Person Reporting (include unit/incident position, email address and phone #):	
19. Name of Resource Advisor contacted (if different from above; include contact information):	
20. Were appropriate entities notified, if required? (i.e. FWS, NOAA Fisheries, DEQ) USFWS <input type="checkbox"/> NOAA <input type="checkbox"/> DEQ <input type="checkbox"/> Other (describe here):	
Resource Advisor or qualified resource personnel MUST complete the <u>SITE ASSESSMENT FORM (Required for Forest Service only)</u> (http://www.fs.fed.us/fire/retardant/) in addition to this form.	

Aerial Fire Retardant

COMPLETING FORMS

Please complete the form as accurately as possible. The form is to be submitted to the host unit Agency Administrator and a copy sent to the Wildland Fire Chemicals System (WFCS) Program at the Missoula Technology and Development Center (MTDC). Electronic on-line reporting should be available mid April 2012. Please complete on-line reporting forms via www.fs.fed.us/fire/retardant
 Contacts: szylstra@fs.fed.us and laufman@fs.fed.us

Incident Name: In ROSS (and FireCode) the field is Incident/Project Order Number – this is how it appears on a Resource Order form – the common denominator for our misapplication form and WFDSS and Firestat and ABS will be at a minimum the Unit ID and incident name.

Time and Date of Occurrence: please provide the time and date of the event. If you are discovering the presence of retardant after the fact, please record the date of discovery and make a reference that it is after the fact. This is very important for monitoring purposes esp. related to water quality.

Name of Chemical: please provide the name of the retardant or other fire chemical.

Avoidance Area Description: please specify whether retardant was applied within the waterway and/or the adjacent 300 ft (or larger) buffer, aquatic Threatened, Endangered, Proposed, Candidate or Sensitive (TEPCS) avoidance area or upland TEPCS species avoidance area. If you do not know if the aquatic avoidance area is a TEPCS species avoidance area contact the resource advisor.

Size of Fire: please indicate size of fire in acres.

Is this part of the 5% assessment of fires less than 300 acres: The Forest Service is required to assess 5% of all fires less than 300 acres per forest that use aerially delivered retardant and where avoidance areas occur. This is a separate reporting process (see ASSESSMENT OF FIRES LESS THAN 300 ACRES IN SIZE form) however, if misapplication of retardant occurs within an avoidance area and this report of a misapplication is part of that 5% please indicate yes.

Mis-application (exception or accidental): please indicate if the misapplication occurred as an accidental drop or an intended application to fire when human life or public safety is threatened and the use of retardant can be reasonably expected to alleviate the threat (FS exception) or one of the 3 DOI exceptions (see Red Book, Chapter 12).

Location: please record the latitude and longitude, of avoidance area, drainage or landmark name if applicable, name of waterway if known and applicable.

Physical Description of Site and Any Observed Environmental Impacts: please provide specific details about the site, such as: general site location description, waterway description (pond, stream, lake, riparian zone) vegetation (tree, shrub, grass, other), presence of dead/compromised fish or other aquatic fauna or any other notable impacts resulting from the chemical misapplication.

Description of Retardant or Fire Chemical Coverage at the Site (light, spotty, continuous, etc): please provide visual description of the fire chemical coverage on site.

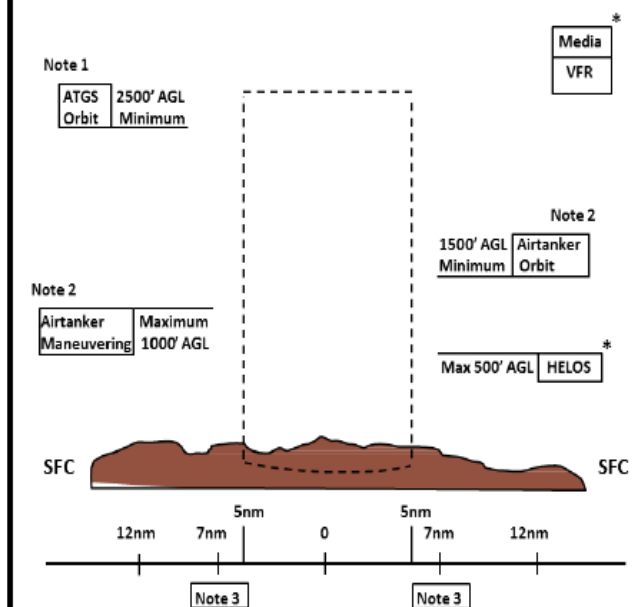
Fire Traffic Area (FTA) 09 Dec 2015

*** Clearance is required to enter the FTA ***

Initial Radio Contact: 12 nm on assigned air tactical frequency.

No Radio Contact: Hold a minimum of 7 nm from the incident.

Note: Airtanker maneuvering altitude determines minimum airtanker and ATGS orbit altitudes. Assigned altitudes may be higher and will be stated as MSL.



Note 1 1000' min. separation between ATGS orbit and airtanker orbit altitude.

Note 2 500' min. separation between airtanker orbit and maneuvering altitude.

Note 3 On arrival reduce speed to cross 7 nm at assigned altitude and 150 KIAS or less.

* **Helicopters:** Fly assigned altitudes and routes.

* **Media:** Maintain VFR separation above highest incident aircraft or position and altitude as assigned by controlling aircraft.

Airtanker Base As Assigned	Air Guard 168.625 Tx Tone 110.9	Air to Air As Assigned	National Flight Following 168.650 Tone 110.9 TX and RX
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National Interagency Airspace: <http://airspacecoordination.org>

2017 Lolo National Forest / Flathead Reservation Aviation Hazards Map

(Derived from 92nd ed. Great Falls Section; issued Jan. 05, 2017)

Map Not to Be Used for Navigational Purposes

DISCLAIMER: The USDA Forest Service (Forest Service) attempts to use the most current and complete data available. GIS data and printed documents may vary. They may be developed from sources of differing accuracy, available only to certain levels, based on modeling or interpretation, incomplete or other reasons. Using GIS products for purposes other than those for which they were created may cause inaccurate or misleading results. The Forest Service reserves the right to correct, modify, or replace GIS products without notification. There is no assurance that all hazardous conditions or activities are depicted on this map or that the user has any depiction are in the right location. The Forest Service assumes no responsibility for the interpretation of information furnished by others.

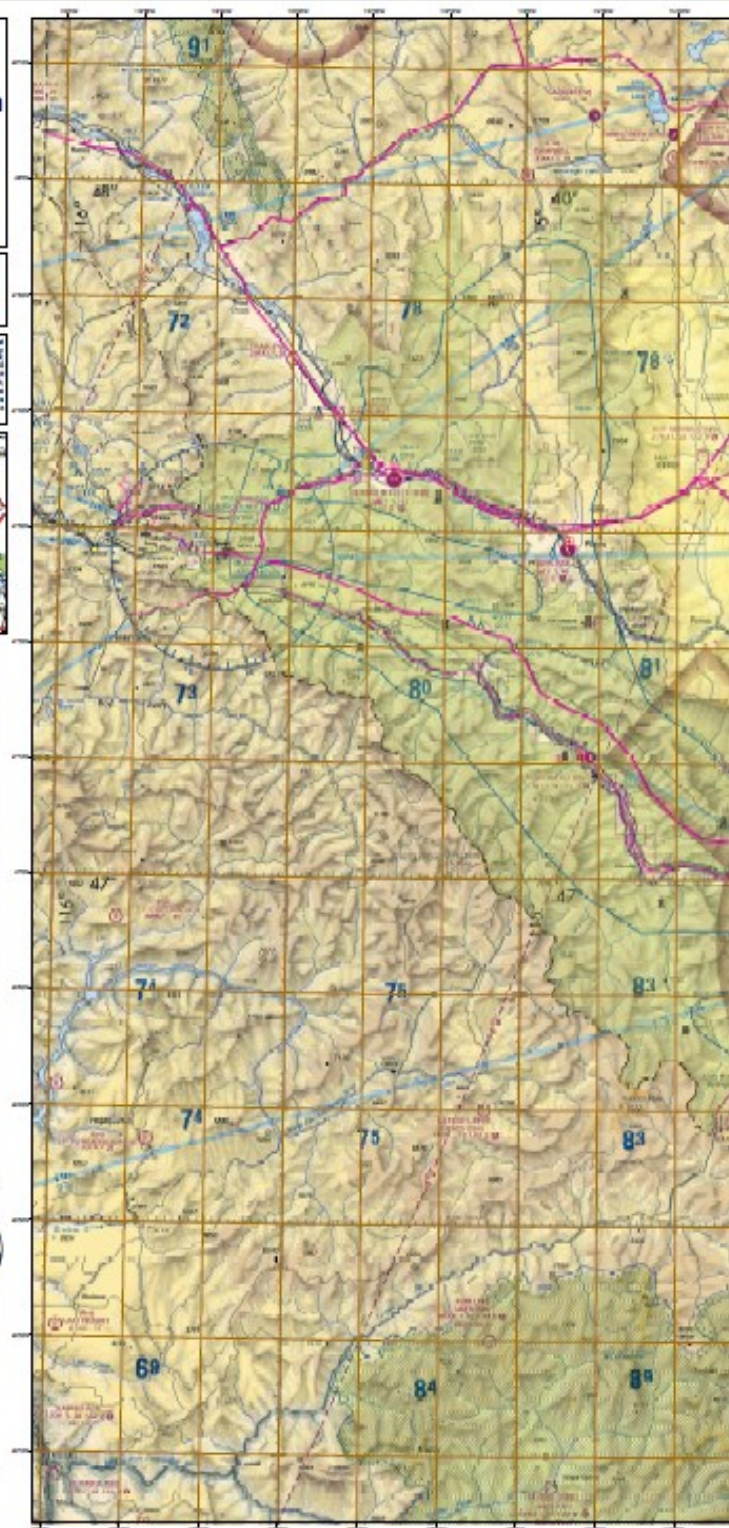


Legend

- Flathead Reservation
- Lolo National Forest
- Wilderness Areas
- Lookouts
- Parachute Jumping Areas
- Paraglider / Hanglider Areas
- Air Tanker Drop Zones
- Ski Areas
- Hospitals
- Repeaters
- Cell Towers
- BPA Transmission Lines
- Other Primary Power Lines
- LNF Detection Route
- SWLO Detection Route
- CLO Detection Route



0 5 10 20 Miles



Lolo NF ANS mitigation strategies are not intended as a roadblock to emergency fire suppression action when life or property is threatened. Firefighter and aviation safety always takes precedence over ANS strategies.

Mobilization/Demobilization

Upon initial arrival to the incident on the LNF and prior to use, equipment that will have contact with a water source will be cleaned as per the recommendations of [PMS 444: Guide to Preventing Aquatic Invasive Species Transport by Wildland Fire Operations](#).

For aviation operations, no chemicals are to be used on aviation equipment—only water or high temperature water is recommended. A final visual inspection for any mud or aquatic plants will complete the inspection process. If plants or mud are detected, then repeat the process until the bucket is completely clean.

- This process should be done a minimum of 300 ft away from any body of water or in a manner that will prevent contaminated water from reaching surface water, riparian, and wetland areas.
- When the aircraft is demobilized from the incident, the process will be repeated to ensure no ANS species are transported to a new incident at another location. Documentation of cleaning will be issued by the helicopter manager to the helicopter pilot stating the bucket was cleaned in accordance with the Forest ANS plan.
- An exemption to the washing requirement can be granted if documentation is presented to verify the visiting equipment was treated prior to arrival to the LNF

During Suppression Operations :

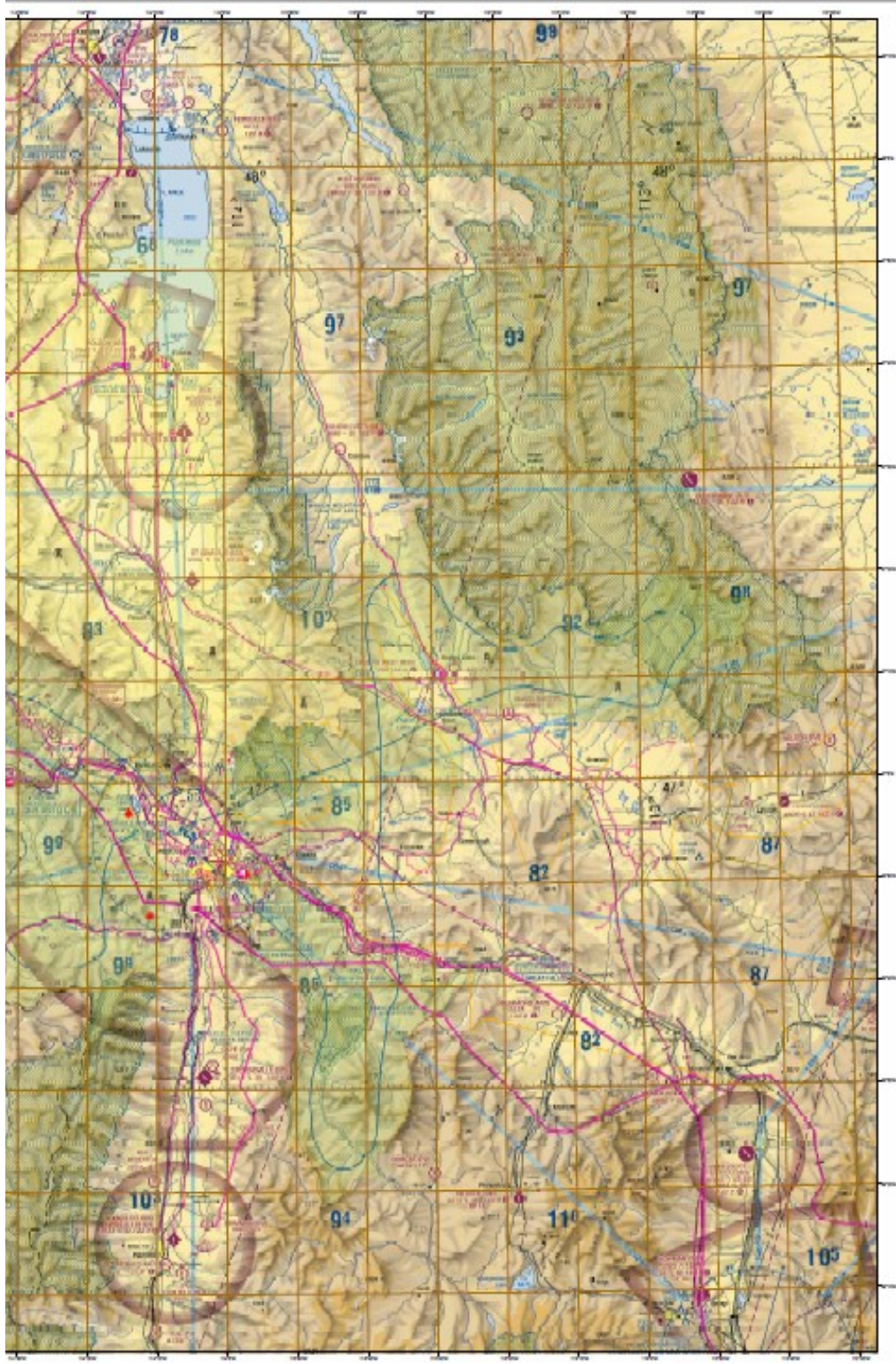
Known ANS sites should be avoided as a first precautionary measure. Private ponds will be considered suspect unless tested otherwise.

During the operational period if an ANS-infected dip site is used to provide suppressant to the fire via aerial delivery, the equipment contacting the water will be cleaned and inspected before moving to a new dip site.

If using ANS-contaminated waters, aerial drops will occur at a minimum of 50 feet away from any live body of water.

Airports and Airstrips

Airport-FAA ID	Lat/Long	Elev	Length	Mgr	Phone (406)	Remarks
Missoula-MSO	46 54.98 x 114 05.43	3205'	9501'	Cris Jensen Msla Co. Airport Auth.	728-4381	Class D airspace
Ninemile	47 44.7 x 114 24.70	3360'	2600'	USFS Dewey Arnold	626-5422 626-5201	USFS Admin only Bck ctry airstrip
Emergency only						
Plains-S34	47 28.24 x 114 54.25	2462'	4650'	Randy Garrison	370-6179	No Services Lights
Rock-OMTO Creek	46 10.75 x 113 39.5	3540'	4075'			No Services AKA Elliot Field Turf
Seeley-23S Lake	47 10.75 x 113.26.72	4235'	4235'	Mike Lindeman	677-9229	No Services Watch Float Planes BAC check required No lights, Turf
Superior-9S4	47 10.10 x 114 51.22	2787'	3400'	Steve Temple	406-382-0161	No Services No lights
Thompson-THM	47 34.50 x 115 17.06	2460'	4200'		827-3519	Avgas Lights
Polson-8S1	47 41.73 x 114 11.11	2938'	4200'		883-2482	Services
Ronan-7S0	47 34.25 x 114 05.81	3089'	4800'	Bob Snyder	250-4824	Services



2017 Missoula Sunrise/Sunset

	June		July		Aug		Sept	
1	0545	2124	0546	2134	0616	2108	0656	2015
2	0545	2124	0547	2134	0618	2107	0658	2013
3	0544	2125	0547	2134	0619	2105	0659	2011
4	0544	2126	0548	2133	0620	2104	0700	2009
5	0543	2127	0549	2133	0621	2102	0701	2007
6	0543	2128	0549	2133	0623	2101	0703	2005
7	0543	2128	0550	2132	0624	2059	0704	2003
8	0542	2129	0551	2132	0625	2058	0705	2001
9	0542	2130	0552	2131	0626	2056	0707	1959
10	0542	2130	0553	2131	0628	2055	0708	1957
11	0541	2131	0553	2130	0629	2053	0709	1955
12	0541	2132	0554	2129	0630	2051	0711	1953
13	0541	2132	0555	2128	0632	2050	0712	1951
14	0541	2132	0556	2128	0633	2048	0713	1949
15	0541	2133	0557	2127	0634	2046	0714	1947
16	0541	2133	0558	2126	0636	2045	0716	1945
17	0541	2134	0559	2125	0637	2043	0717	1943
18	0541	2134	0600	2124	0638	2041	0718	1941
19	0541	2134	0601	2123	0639	2039	0720	1939
20	0542	2135	0602	2122	0641	2038	0721	1937
21	0542	2135	0603	2121	0642	2036	0722	1935
22	0542	2135	0605	2120	0643	2034	0724	1933
23	0542	2135	0606	2119	0645	2032	0725	1931
24	0543	2135	0607	2118	0646	2030	0726	1929
25	0543	2135	0608	2117	0647	2028	0728	1927
26	0544	2135	0609	2116	0649	2027	0729	1925
27	0544	2135	0610	2115	0650	2025	0730	1923
28	0544	2135	0612	2113	0651	2023	0732	1921
29	0545	2135	0613	2112	0652	2021	0733	1919
30	0545	2135	0614	2111	0654	2019	0734	1917
31			0615	2109	0655	2017		

NOTES:

*PERMANENT SEAT BASE FACILITIES***Ronan Airport-CS&KT**

Description: Airport is located three miles north of Ronan. SEAT operations are located just to the north of the hangers south of the Division of Fire Heli-pads.

Coordinates: 47 34.25N' x 114 05.81'W

Elevation: 3085'

Unicom: 122.9

Runway Length: 4,800'

Airport Identifier: 7SO

Special Requirements: Airport hosts and or is in close proximity of the Mission Valley Helitack Base, One Exclusive-Use Seat and sky diving operations.

Contact: Robert McCrea– SEAT Base Manager (406) 676-2550 for further information and SEAT Base briefing.

Info pertinent to location: Seat base facilities include a communication trailer utilized for operations and a pilot lounge area. Water, phone, and electricity are available. Cell service is excellent. The base can host up to five SEAT's and is commonly used due to its central location in relation to both the Flathead Indian Reservation and the Lolo National Forest. Food and lodging are available in Ronan and Polson.

	June		July		Aug		Sept	
1	0546	2129	0547	2140	0618	2113	0659	2019
2	0546	2130	0547	2140	0619	2112	0700	2017
3	0545	2131	0548	2139	0621	2110	0702	2015
4	0545	2132	0549	2139	0622	2109	0703	2013
5	0544	2133	0550	2139	0623	2107	0704	2011
6	0544	2133	0550	2138	0624	2106	0705	2009
7	0543	2134	0551	2138	0626	2104	0707	2007
8	0543	2135	0552	2137	0627	2102	0708	2005
9	0543	2135	0553	2137	0628	2101	0709	2003
10	0543	2136	0554	2136	0630	2059	0711	2001
11	0542	2137	0555	2135	0631	2058	0712	1959
12	0542	2137	0555	2135	0632	2056	0713	1957
13	0542	2138	0556	2134	0634	2054	0715	1955
14	0542	2138	0557	2133	0635	2053	0716	1953
15	0542	2139	0558	2132	0636	2051	0717	1951
16	0542	2139	0559	2131	0638	2049	0719	1949
17	0542	2139	0600	2131	0639	2047	0720	1947
18	0542	2140	0601	2130	0640	2046	0721	1945
19	0542	2140	0603	2129	0642	2044	0723	1943
20	0542	2140	0604	2128	0643	2042	0724	1941
21	0543	2140	0605	2127	0644	2040	0726	1939
22	0543	2141	0606	2126	0646	2038	0727	1937
23	0543	2141	0607	2124	0647	2036	0728	1935
24	0543	2141	0608	2123	0648	2035	0730	1932
25	0544	2141	0609	2122	0650	2033	0731	1930
26	0544	2141	0611	2121	0651	2031	0732	1928
27	0545	2141	0612	2120	0652	2029	0734	1926
28	0545	2141	0613	2118	0654	2027	0735	1924
29	0546	2141	0614	2117	0655	2025	0736	1922
30	0546	2140	0615	2116	0656	2023	0738	1920
31			0617	2114	0658	2021		

2017 Ronan Sunrise/Sunset

	June		July		Aug		Sept	
1	0543	2126	0543	2137	0614	2110	0656	2016
2	0542	2127	0544	2137	0616	2109	0657	2014
3	0542	2128	0544	2137	0617	2107	0658	2012
4	0541	2129	0545	2136	0618	2106	0700	2010
5	0541	2130	0546	2136	0620	2104	0701	2008
6	0540	2131	0547	2135	0621	2103	0702	2006
7	0540	2131	0547	2135	0622	2101	0704	2004
8	0539	2132	0548	2134	0624	2100	0705	2002
9	0539	2133	0549	2134	0625	2058	0706	2000
10	0539	2133	0550	2133	0626	2056	0708	1958
11	0539	2134	0551	2133	0627	2055	0709	1956
12	0539	2134	0552	2132	0629	2053	0710	1954
13	0538	2135	0553	2131	0630	2051	0712	1952
14	0538	2135	0554	2130	0631	2050	0713	1950
15	0538	2136	0555	2130	0633	2048	0714	1948
16	0538	2136	0556	2129	0634	2046	0716	1946
17	0538	2137	0557	2128	0635	2044	0717	1944
18	0538	2137	0558	2127	0637	2043	0718	1942
19	0539	2137	0559	2126	0638	2041	0720	1940
20	0539	2138	0600	2125	0639	2039	0721	1937
21	0539	2138	0601	2124	0641	2037	0722	1935
22	0539	2138	0602	2123	0642	2035	0724	1933
23	0539	2138	0603	2122	0643	2033	0725	1931
24	0540	2138	0605	2120	0645	2032	0726	1929
25	0540	2138	0606	2119	6046	2030	0728	1927
26	0541	2138	0607	2118	0648	2028	0729	1925
27	0541	2138	0608	2117	0649	2026	0730	1923
28	0542	2138	0609	2115	0650	2024	0732	1921
29	0542	2138	0611	2114	0652	2022	0733	1919
30	0543	2138	0612	2113	0653	2020	0735	1917
31			0613	2111	0654	2018		

PERMANENT SEAT BASE FACILITIES

Plains Airport-LNF



Description: The Plains Airport is located in Sanders County, Montana. The airport is approximately 1 mile north west of Plains, next to the Plains Interagency Dispatch Center.

Coordinates: 47 28.24' N x 114 24.70' W

Elevation: 2462'

Unicom: 122.9

Runway Length: 4,650'

Airport Identifier: S34

Special Requirements: *802 First Load Protocol*:

Currently recognition has been made to the lack of performance charts in reference to the Air Tractor 802. To lend assistance towards performance evaluation of an unknown flight environment with relation to a new incident, Plains SEAT Base has implemented a maximum first load of 600 gal for any assisting Air Tractor 802. After evaluation of the operational flight area has been made and all factors are taken into consideration future load amounts will be at the sole discretion of the pilot.

Contact: Ned Winebrenner-PIDC Center Manager (406) 826-4338 for further information and a SEAT Base Briefing.

Info pertinent to location: The SEAT base filling site is located in the fixed wing parking area on the east side of the runway. Pilot lounge facilities exist with water and a phone line available. Hazards include General Aviation and rotor wing fire operations

PERMANENT SEAT BASE FACILITIES

Missoula Airport-LNF



Description: Located at the west end of the Missoula International Airport, next to the Heavy Airtanker base.

Coordinates: 46 54.98'N x 114 05.43'W

Elevation: 3,205'

Unicom: 122.95

Tanker Base Ramp freq: 123.9750

Runway Length: 9,501'

Airport Identifier: MSO

Special Requirements: Used for Smoke Jumper, Helitack, Heavy Airtanker, and SEAT operations. A copy of the Missoula Tanker Base Operating Plan is available at the tanker base.

Contact: Greg Houska-Tanker Base Manager at (406) 329-4910 for further information and a tanker base briefing.

Info pertinent to location: The SEAT base filling site is located just to the north of the retardant holding tanks. Full facilities exist with food and lodging available in Missoula. Hazards include General Aviation traffic.

2017 Northern Rockies EMS Aircraft

Billings, MT	EC135 & King Air 200	Metro Aviation	(800) 538-4357	Help Flight
Belgrade, MT	Agusta A109E	Reach	(800) 338-4045	Reach
Butte, MT	Agusta AW119KX, PC-12	Life Flight Network	(800)-232-0911	Life Flight
Great Falls, MT	EC-135 P2+ & Cessna Mustang	Metro Aviation Aero Air Holman Aviation	(800) 972-4000	Mercy Flight
Helena, MT	Fixed Wing Pilatus PC12	Reach	(800) 338-4045	Reach
Helena, MT	Agusta A109E	Reach	(800) 338-4045	Reach
Kalispell, MT	Bell 407	Alert	(406) 752-9797	Alert
Missoula, MT	Agusta A119	Life Flight Network	(800) 232-0911	Life Flight
West Yellowstone, MT (Year round, parked at Ennis, MT winter-nights/bad wx)	Bell 407	Air Methods	(800) 247-4324	Air Methods
Boise, ID	Agusta Kuala119 & PC-12	Life Flight Network	(800) 232-0911	Life Flight
Burley, ID	Agusta A119	Life Flight Network	(800) 232-0911	Life Flight
Coeur d'Alene, ID	Agusta A119	Life Flight Network	(800) 232-0911	Life Flight
Driggs, ID	AS 350	Air Methods	(800) 247-4324	Air Methods
Idaho Falls, ID	Pilatus PC-12	Air Methods	(800) 247-4324	Air Methods
Lewiston, ID	Agusta A119	Life Flight Network	(800) 232-0911	Life Flight
Pocatello, ID	Bell 407	Air Methods	(800) 247-4324	Air Methods
Rexburg, ID	Agusta A119	Life Flight Network	(800) 232-0911	Life Flight
Sandpoint, ID	Agusta A119	Life Flight Network	(800) 232-0911	Life Flight
Colville, WA	Agusta A119	Life Flight Network	(800) 232-0911	Life Flight
Pullman, WA (Palouse Base)	Agusta A119	Life Flight Network	(800) 232-0911	Life Flight
Spokane, WA	(2) EC135 & (1) Pilatus PC 12	Life Flight Network	(800) 232-0911	Life Flight
Bismarck, ND	(1) C-441 Fixed Wing (1) C-441 Fixed Wing	Bismarck Air Medical	(800) 441-1310 (701) 255-0812	Care Flight
Bismarck, ND	Bell 230	Sanford AirMed	(800) 437-6886	Air Med
Minot, ND	Bell 407	Med-Trans CriticAir	(800) 223-1596	Northstar CriticAir
Gillette, WY	King Air C90B	Guardian Flight	(855) 291-8989	Guardian Flight
Cody, WY	Eurocopter AS350 B3	Reach	(800) 338-4045	Reach
Dispatch procedures for ordering MAST services: See Ch. 80 of this guide <ul style="list-style-type: none"> Use the Military only when private/contract services cannot be provided to perform the mission. Determine radio frequencies to be utilized and flight following procedures. Most military helicopters are restricted to VHF-AM communications. An aerial platform may be a necessary link for flight following communications. 				
Spokane, WA	Fairchild AFB	UH-1N Iroquois	36th Rescue	509-247-4051 (command)
Great Falls, MT	Malmstrom AFB	UH1N (Bell-212)	40th Helicopter	406-731-3250 or 3257 (0730-1700) 406-731-3801 Command Post

When transporting injured personnel by helicopter under Agency Contract, the pilot or manager will time to the "T" and "HEAR" frequency to establish direct communications with the

hospital staff. In Montana that frequency is "White" 155.280 and in Idaho that frequency is 155.340.

Helibase/Helispot Locations

9-Mile Helibase-LNF



Description: Located one mile west of the Ninemile R.S.
Coordinates: 47° 4.47'N x 114° 24.70'W.
Elevation: 3260ft MSL.

Special Requirements: Used for initial attack operations with rotor-wing aircraft, only. Not recommended for use as a fixed-wing airstrip ---see "Hazards" described below. Located on Forest Service land.

Contact 9-mile District Ranger or FMO, 406-626-5201.

Info pertinent to location: The pasture associated with the airstrip produces a supply of weed-free feed for the Region 1 stock during the winter. Noxious weeds need to be prevented and controlled. No cell phone coverage, electricity, or toilet facilities are present at this site. Radio transmission to Ninemile Ranger District is poor. Relaying through Missoula Dispatch works well. A windsock is located on the East edge of the airstrip. Prevailing winds come out of the Southwest.

Hazards: Possible light fixed-wings may be using the airstrip. Stock animals and wildlife frequent the area and haystacks are frequently constructed near the edge of the landing strip. Ground hazards include: Irrigation pipe on or near airstrip from May through August, loose hay, and haystacks. Helibase is HIGE.

Fuel: Aviation fuel available at Minuteman Aviation or Northstar at the Missoula Airport.

CS&KT HELISPOTS

Upper Lone Pine- Located to the north of the town of Hot Springs off of the Lone Pine 2100 road.

Elevation: 2930'

Coordinates: 47 44.806'N x 114 41.127'W

Typically used for initial attack operations. Will accommodate three type three helicopters or two type two helicopters. No facilities or power are present. Cell service does not exist. Property is Tribal owned. Hazards include a residential structure and an eagles nest noted as a do not fly area southwest of the primary access road. Helispot is HIGE.

LNF/CS&KT Dip Sites

Land-Use agreements are in place throughout the forest to allow for bucket operations on the Lolo N.F and CS&KT lands. Prior to commencing helicopter bucket operations on private land confirmation for use needs to be made with the hosting dispatch agency.

CS&KT HELISPOTS

Jocko Prairie- Located to the east of Arlee off of Jocko Canyon Rd.

Elevation: 3860'

Coordinates: 47 12.328'N x 113 53.488'W

Has been used for type three support and will accommodate two type two or three type three helicopters. Fuel truck access is limited. No facilities or power exist. Cell service is not present. Hazards include a large power line running east and west on the south side of the opening. Helispot is HIGE

Mill Pocket- Located west of Deep Draw Helispot off of Canal Rd.

Elevation: 2900'

Coordinates: 47 48.317'N x 114 39.608'W

Has been used for type three support and will host multiple type one, two, and three helicopters. Land is tribal ground. Cell service is not present. No facilities or power exist. Hazards include tall grass. Helispot is considered HOGIE in tall grass areas and HIGE in areas of bare ground cover.

Nirada gravel pit- Located west of Deep Draw helispot off of HWY 28.

Elevation: 2925'

Coordinates: 47 49.558'N x 114 33.754'W

Typically used for initial attack operations but will accommodate aircraft if potential growth is foreseen. Can hold up to three type three helicopters or two type two rotor wing aircraft. No facilities or power exist. Cell service is not present. Hazards include power lines along the highway, dust, and random wire and fence. Property is Tribal owned. Helispot is HIGE.

Seepay Gravel Pit- Located west of Perma Bridge helispot off of Hwy 200.

Elevation: 2525'

Coordinates: 47 20.430'N x 114 38.081'W

Typically used for initial attack operations. Area will hold three type three or two type two helicopters. Property is Tribal owned. Cell service is patchy at best. No facilities or power exist. Hazards include dust, random debris and traffic. Helispot is HOGIE.

St. Regis Helibase-LNF



Description: Located at the St. Regis Work Center, St. Regis, Mt.

Coordinates: 47 18.22' N x 115 06.58'W.

Elevation: 2640ft MSL.

Special Requirements: This is an agency owned facility and can be used for Initial Attack and IMT as the need arises. **Contact Jim Ward, 406-822-3943.**

Info pertinent to location: The facility will accommodate type I, II and III helicopters, but space is limited. The helibase has an operations and a storage building with phone, water and electricity available. Contact the Superior Ranger District (406-822-4233) to turn on the utilities. Cell coverage in this area is spotty. There are no restroom facilities available. Ordering portable restrooms is strongly recommended. There are two (2) landing pads and additional aircraft parking on the surrounding grass area. Mowing and weed-eating around the landing areas may be needed. There is food and lodging in St. Regis about ½ miles from the base and a Forest Service bunkhouse at the work center.

Hazards: Hazards in this area include mountains, power lines, fences, trees and some private residents around the area. I-90 is located ½ mile south of the helibase. Significant operations may have some effect on the community of St. Regis.

Fuel: No fuel services are available at St. Regis, but may be purchased from Minuteman Aviation or North Star Aviation located at the Missoula Airport.

Plains Helibase-LNF



Description: Located 1 mile northwest of Plains, MT, east of the Plains Airport.

Coordinates: 47 28.51'N x 114 53.96'W.

Elevation: 2462ft MSL.

Unicom: 122.9

Runway Length: 4,651'

Airport Identifier: S34

Special Requirements: Used for Initial Attack operations. Located on Department of Natural Resources and Conservation (DNRC) lands. IMT use could affect Initial Attack operations. Alternate location for IMT Helibase could be on the closed run way (agreement needed).

Contact Bobbi Bennet, 406-826-4730.

Info pertinent to location: The helibase consists of three maintained concrete pads and windsock located on the DNRC property. During heavy use the DNRC will open the Helitack trailer, with mobile radio for crew to utilize. Power and phone lines are present. Cell phone coverage is excellent. The new Plains Airstrip is 4650' in length. No aviation fuel is available. The closest aviation fuel is located in Ronan or Missoula. Noxious weeds are present. Hazards consist of the DNRC buildings, powerlines, as well as other aircraft over the airport. Dust Abatement is not an issue and vehicle traffic will need to be addressed for operations involving more than one ship. Airport Manager is **Randy Garrison 406-370-6179.**

CS&KT HELISPOTS

PERMA BRIDGE- Located across river from Perma, MT off of HWY 200. Elevation 2525'.

Coordinates: 47 19.509'N x 114 04.875'W

Has been used as a helibase for large fire operations in the past. Land is owned by the Confederated Salish and Kootenai Tribes. Cell service is patchy and no electricity is to the site. Hazards include power lines located to the east of the bridge crossing the river, traffic, and public. Helispot is HIGE.

DEEP DRAW- Located NW of Polson on HWY 28. Elevation 3130'.

Coordinates: 47 48.537'N x 114 28.640'W

Can handle multiple light, medium, and heavy helicopters. Has been used as a helibase in the past. Contact Ronan Dispatch for approval to use as land is privately owned. No facilities, power, or water exist. Hazards include public, fences, and dust. Helispot is HIGE.

Arlee Pow Wow Grounds- Located to the east of Arlee off of Pow Wow Rd. Elevation 3140'

Coordinates: 47 09.740'N x 114 04.229'W

Has been used as a helibase for type 3 incidents in the past. Can handle multiple light, medium, and heavy helicopters. Contact Ronan Dispatch prior to use and to gain ground access for support vehicles as the facility is behind a locked gate. Hazards include multiple power lines, power boxes on ground, and fences.

Elmo Pow Wow Grounds- Located in the town of Elmo, North west of Polson off of Skookum Drive.

Elevation: 2950'

Coordinates: 47 49.662'N x 114 21.405'W

Can hold 6 lights or 4 medium helicopters. Has been used as a helibase in the past. Cell service is present. Contact Ronan Dispatch prior to use. Hazards include power lines, fire pits, and dust. Helispot is HIGE.

MISSION AIRPORT-CS&KT



Description: Located to the east of St. Ignatius (Mission) off of Airport Rd.
Coordinates: 47 19.509'N x 114 04.875'W
Elevation: 2969'
Unicom: 122.9
Runway Length: 2,610'
Airport Identifier: 52S

Hazards: General Aviation

Contact Ronan Dispatch: 406-676-2550

Special Requirements: Airport is publicly owned and is managed by Rick Newman (406) 544-8004

Info Pertinant to location: No Jet A available. 100LL Available. Cell service is excellent. Gov facilities do not exist. For rotor wing initial attack operations it is recommended to land between the two taxi ways. Contact Ronan Dispatch for utilization of facility for large fire operations.

Stevensville Airport 32S



Description: Located east of Stevensville and accessed by the East Side Hwy then to Airport Rd.
Coordinates: 46 31.506'N x 114 03.168'
Elevation: 3610'
Unicom: 122.8
Runway Length: 3,800'
Airport Identifier: 32S
Contact: Hamilton Dispatch-406-363-7133

Special Requirements: Primarily used for initial attack operations in the south end of Rock Creek as this airport is located directly west of the area and offers an advantage logistically. A land use agreement is in place for use of the SRE building at the NW corner of the airport, and for extended operations. Contact the Lolo or Bitterroot N.F. FAO for more details pertaining to large helibase operations. The airport resides on the Bitterroot N.F. therefore contact Hamilton Dispatch prior to commencing operations.

Info pertinent to location: No Gov facilities exist. Cell service is excellent. The airport is owned by the town of Stevensville and is managed by Chris Soto (406-414-9132).

Fuel: 100LL, no Jet A

Hazards: General Aviation

Seeley Lake Old Airstrip (Fawn Cr.)



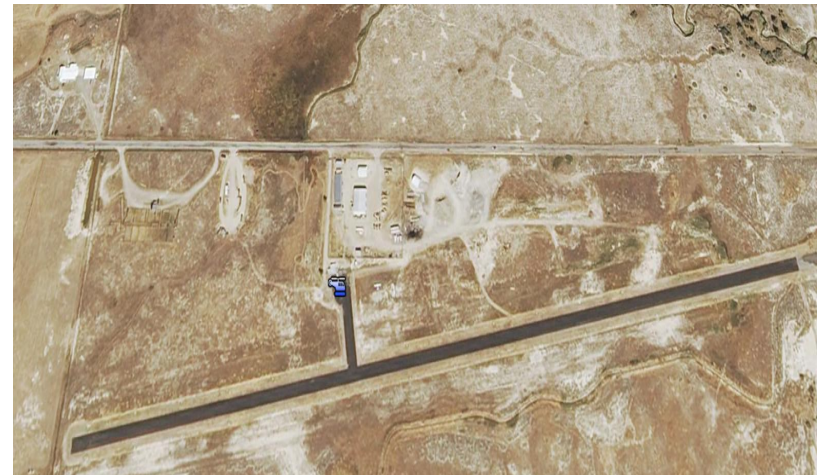
Description: Located 2 miles north of Seeley Lake. Turn west on Boy Scout Rd. north of Seeley Lake and then north on FS road #4349.
Coordinates: 47 14.44'N x 113 33.72'W.
Elevation: 4000ft MSL.

Special Requirements: Used for Initial Attack operations. Located on Forest Service land. IMT use could affect Initial Attack operations. Alternate location for Initial Attack operations or IMT Helibase would be the Seeley Lake Airport.

Contact Phil Shelmerdine, 406-677-3915.

Info pertinent to location: Consists of a 12'x12' cement pad and windsock located on the Old Seeley Lake Airstrip which is no longer in service. Site is currently only to be used as a Type II Helibase (1-3 helicopters). If a larger base is needed, consider other alternatives (i.e. Seeley Lake Airport). During extended use, the District may provide a temporary trailer, with a mobile radio for the crew to utilize. No power or phone lines are present. Cell phone coverage is excellent from this location. The Old Seeley Lake Airstrip is roughly 1500' to 2000' in length. The access road runs down the center of the old airstrip. There is room for crew staging and a cargo area. No aviation fuel is available in Seeley Lake. Closest aviation fuel is located in Missoula. Noxious weeds are present. Hazards include but are not limited to a frequently used Forest Service road adjacent to the landing areas, as well as other aircraft in the area. Float-planes are common on Seeley Lake during summer months. Dust Abatement and vehicle traffic will need to be addressed for operations involving more than one ship. Significant flight operations may have an effect on the small subdivision of Crescent meadows, located ½ to 1 mile north of the Old Seeley Lake Airstrip.

HOT SPRINGS AIRPORT-CS&KT



Description: Located East of Hot Springs towards the south end of Camas Prairie.

Coordinates: 47 36.881' N x 114 36.922' W

Elevation: 2,765'

Unicom: 122.9

Runway Length: 3,550'

Airport Identifier: S09

Special Requirements: Airport is owned by Sanders County and managed by Jeff Friesz 406-406-741-3582 or 406-471-2423

Or Don Thealer: 406-741-5040

Hazards: General Aviation, Dust

Contact: Ronan Dispatch 406-676-2550

Info Pertinent to location: No fuel available. For initial attack operations rotor wing parking is located on the north end of the taxi way. A land line does exist however dependability varies. Cell service is spotty at best. No facilities are available. Noxious weeds are present. Hazards include General Aviation, and dust depending on where you land. For extended operations consisting of more than one aircraft contact Ronan Dispatch for coordination with the Airport Manager.

RONAN HELIBASE/ SEAT BASE -CS&KT



Description: Located on the west side of runway north of SEAT base.

Coordinates: 47 34.25' N x 114 05.81' W

Elevation: 3085'

Unicom: 122.8

Runway Length: 4,800'

Airport Identifier: 7SO

Special Requirements: Base of operations for both SEAT operations and Mission Valley Helitack. Not typically used for large fire support.

Hazards: General Aviation, Sky-Diving operations

Contact: Ronan Dispatch 406-676-2550

Info Pertinant to location (Rotor Wing): Heli-Pads are located just to the north of SEAT base and east of the main Division of Fire facility. A total of two pads exist for rotor wing landing, however typically only one is available as pad 1 is assigned to Mission Valley Helitack. Pad 2 is approved for landing both a type 2 and 3 helicopter. Jet A and Av gas are available. Cell service is excellent and land lines are available. For additional specifics contact Todd Couture at 406-676-2550

Fixed Wing: SEAT base is located just to the south of Heli-Pad 2. Typical operations consist of one Exclusive-Use SEAT but the area can house up to a total of 5. For additional specifics contact Robert McCrea at 406-676-2550

LNF/CS&KT-Helisports

The LNF/CS&KT frequently utilizes helispots for project and fire operations. In most cases, previously established helispots are used (see list below), but in some cases, an unimproved helispot is needed. When this is the case the following procedures will be followed when selecting a helispot:

Check with Dispatch to determine the availability of a Land-use Agreement if the proposed helispot is on private land.

Use Minimum Impact Standards to select a landing area. Look for open meadows, ridge tops, etc., in the area you will be working. Avoid helispots that need to be cleared. Felling of trees requires prior approval.

Project helispots will be identified in the project aviation safety plan.

On fire incidents, the Air Operations Branch Director is responsible for the establishment of all helispots, though this responsibility may be delegated to the Air Support Group Supervisor or Helibase Manager. In all cases, the Incident Management team will consult the Forest Aviation Officer and Resource Advisor.

During Initial Attack activities, the pilot and the manager must approve the helispot prior to landing.

Missoula Ranger District

Heffernan Field- Located in T10N R16W Section 6, 46° 39.1 x 113° 39.5, elevation 3760ft, in the Rock Creek Drainage. Can handle four medium ships and up to six light ships. Has been used as a helibase in the past. Dip sites are readily available in Rock Creek, adjacent to the site. Land is privately owned and a Land Use agreement is renewed annually. No cell phone coverage or electricity is present at the site. Noxious weeds are present. Hazards include power lines parallel to the rock creek road, a livestock corral located in the north east corner of the field, and traffic on Rock Creek road. Helispot is HIGE.

Howard Creek Meadows- A small meadow located in T12n R24W Section 20, 46° 46.64 x 114° 31.46, elevation 4360ft, in the Howard Creek drainage. Good approach and departures. Will handle one medium and two light helicopters. Has been used in the past for fire operations and prescribed fire operations. Located on Forest Service land. There is a stream adjacent to the meadow that has good flow to support a heli-well. The creek is too shallow for dipping. There is sporadic cell phone coverage and no electricity on site. Noxious weeds are present. Main hazards are traffic on the main road, and campers occasionally use site. Helispot is HIGE.

LNF-Helispots

Missoula Ranger District

Bitterroot Flats

Located in T8N R17W Section 6, 46° 28.48 x 113° 46.48, elevation 4240ft, in the Rock Creek Drainage. Can handle two medium ships and up to four light ships. Has been used as a helibase in the past. There are natural dip sites in Rock Creek for bucket operations adjacent to the site. Port-a-tanks could be set up at the Wahlquist Trail Head for heli-well operations. It has been used for fire support operations for fires in the Rock Creek Drainage. No cell phone coverage or electricity is present at the site. Noxious weeds are present. Helispot is located on private land and no Land Owner Agreement is in place. Hazards are cabins adjacent to helispot, traffic on Rock Creek Road, and campers, fishermen on Rock Creek. Helispot is HIGE.

Ninemile Ranger District

Fish Creek

Located on State Land in T17N R24W Section 26, 46° 56.30 x 114° 41.09, elevation 3100ft, in the Fish Creek Drainage. Helispot will handle two to three light ships or one to two medium ships. Helispot has been used in the past for Initial Attack fire support. No cell phone coverage or electricity is present at site. Noxious weeds are present. Hazards in the area include cabins and gusty winds in the Fish Creek Canyon. Helispot is HIGE.

Plains Ranger District

Vanderhoff

Located in T18N R25W Section 4, 47° 20.8 x 114° 47.2, elevation 2800ft, near the junction of Highway 200 and Highway 135. Helispot is a large privately owned farm field. It has been used as a helibase for both prescribed and wildland fires in the past. There is an annual agreement with the landowner. Capable of supporting numerous Type I, II, & III helicopters. Introduction of noxious weeds would need to be addressed. There is no cell phone coverage or electricity on the site. Hazards include highways adjacent to helibase, power lines to the north, and erratic canyon winds. Helispot is HIGE.

LNF-Helispots

Seeley Lake Ranger District

Monture Guard Station

The Monture Helispot is located in a pasture on the West side of Monture Guard Station in T16N R11W Section 20, 47° 11.89 x 113° 9.17, elevation 4200ft. It will handle two medium or two light ships. A host is usually present at the Guard Station. Hazards are vehicles, stock animals, power lines and a fence 100' to the West of helispot. Used primarily for Initial Attack operations. Not recommended for extended operations. Helispots are HIGE. Several areas to the South of the Guard Station have been used in the past as helibases for large fire support. Contact Seeley Lake Ranger district to inquire on availability of these sites.

Superior Ranger District

Superior; Mineral Co Airport (9S4)

The Superior Airport is located 2 miles east of Superior on the north side of I-90, T16N R26W sec2/11, Lat 47 10.10 Long 114 51.22, elevation 2787ft with a runway length of 3400ft. The airport is privately owned. Contact airport manager: Steve Temple 406-382-0161. The airport has no fuel or lighting services. Hazards are light fixed wing, fence around the airport, and power lines in the area. The airport will accommodate light, medium and heavy helicopters. Requires approval for extended use.